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Tetrahedron Letters

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Anodic amide oxidations: Conformationally restricted peptide building blocks from the direct oxidation of dipeptides

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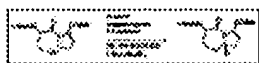
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Abstract

A pair of bicyclic lactam based conformationally restricted peptide mimetics have been synthesized in good yield by the direct anodic oxidation of dipeptides. This work highlights the simplicity of using electrochemistry to construct peptide mimetics and serves to further define the nature of the substituents that are compatible with an electrochemical procedure for annulating rings onto amino acid derivatives.

Graphical Abstract

The selective oxidation of dipeptide precursors has been shown to provide a rapid entry into bicyclic lactam based peptide mimetics.



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